

AUTHOR INDEX

A.-Matin A. K. M., 33
 Abbas K., 755
 Abdel-Fattah A. A., 247, 345
 Abdel-Rehim F., 247, 345
 Aburai T., 123
 Adam A., 1043
 Adem E., 1657
 Agung M., 767
 Ahmady S. J., 501
 Akinaga S., 67
 Akyil S., 709
 Al-Bahri J. S., 777
 Alam M. N., 33
 Alcalá R., 1471
 Alexandreanu B., 745
 Ali Z. I., 247
 Alvarez A., 869
 Ambe F., 235
 Ambe S., 235
 Ambulkar M. N., 581
 Andrews H. R., 933
 Anthony, 767
 Antolović B., 377
 Aoki T., 369
 Apaydin F., 1405
 Arbon R. E., 713
 Arnold D., 889
 Arpesella C., 991
 Asfahanji J., 591
 Atif Cetiner M., 535
 Aydin A., 185
 Aziz N. H., 617
 Azorin J., 1539, 1655
 Babushkina T. A., 1381
 Baccaro S., 1637
 Baeza A., 811, 939
 Bagiawati S., 195
 Bahain J. J., 1419
 Baillif I., 1281, 1369
 Baker S. T., 355
 Banerjee S., 1, 319, 413
 Baran N., 1281
 Barandica J., 939
 Barashkov N. N., 1557
 Bari A., 241
 Barnes R. K., 731
 Bartle C. M., 739
 Bartoli J., 1489
 Barton J. C., 997
 Bartstra R. W., 355
 Basly J. P., 1565
 Basova L. B., 1381
 Bates T. H., 967
 Bauer C. B., 497
 Baxter M. S., 1127
 Bayés J. C., 849
 Beasley T., 967
 Beets A. L., 23
 Benitez J. S., 339
 Benny P. G., 115
 Bensen D., 1197
 Bernard M., 1561, 1565
 Bhat C. L., 191
 Bhatt B. C., 115
 Bhattacharyya D., 323
 Biramonti S., 457
 Blanchard X., 1043
 Bland C. J., 895, 925
 Blower P. J., 623
 Boesman E., 1241
 Bogni A., 717
 Bolivar J. P., 1069
 Bombardieri E., 717
 Bond A. H., 497
 Bor-Tsung Hsieh, 267
 Bougov N. G., 433
 Bouquillon S., 479
 Bourlat Y., 951
 Bowles N. E., 835
 Brandan M. E., 111
 Brik A., 1317
 Brodski L., 1329
 Bugai A., 1281
 Bukov K. G., 145
 Burillo G., 1657
 Burnet F. R., 623
 Burns H. D., 211
 Bustos M. E., 1655
 E. Cabrera B., 1657
 Callahan A. P., 23
 Callens F., 1241
 Carey W., 473
 Carpenter R., 627
 Carretero J., 841, 1077
 Carroll F. I., 79
 Casas M., 849
 Cerdá V., 849
 Cesareo R., 219
 Chabot G. E., 1533
 Chang-Shinn Su, 207
 Channing M. A., 37
 Chant L. A., 933
 Chao J. H., 575
 Charik R., 821
 Chatterjee R. K., 643
 Chaudhari L. M., 365
 Chaudhary M. H., 467
 Chechov V. P., 329
 Chemin N., 479
 Cheng Y. T., 1023
 Cherkasov F. G., 1615
 Chia-Lian Tseng, 723
 Chiesa C., 717
 Chikkur G. C., 461
 Chiu N. W., 925
 Chou G. T., 669
 Chowdhury M. I., 33
 Chumak V., 1281, 1287
 Church T. M., 473
 Chutke N. L., 581
 Clement C. H., 1003
 Collé R., 677
 Comet M., 51
 Condren O. M., 875
 Coninckx F., 1223, 1231
 Copeland J. F., 1533
 Cornett R. J., 933
 de Corte F., 389
 Crespo M. T., 927, 1115
 Crippa F., 717
 Croudace I. W., 627
 Cserpák F., 569
 Csikai J., 569
 Czauderna M., 105, 153, 735
 Dadachova E., 289
 Dalheimer A. R., 433
 Dannals R. F., 79, 211
 Das N. R., 1, 413
 Das S. K., 293, 643
 DaSilva J. N., 279
 De Angelis C., 1201
 De Jesus E. F. O., 1647
 De Sanctis V., 717
 Dean J. C. J., 835, 971
 Debertin K., 423
 Deep K., 697
 Del Rio L. M., 811
 Delpach J. P., 1183
 Demirel H., 535
 Den Hartog H. W., 1503
 Denisenko O. N., 1359
 Desrosiers M. F., 789, 1197, 1345,
 1375, 1621
 Dmitriev S. N., 127
 Dodd N. J. F., 1641
 Dogra R. K. S., 581
 Dolo J. M., 1165, 1419
 Domb A., 1669
 Drozhko E. G., 1277
 Dubovsky S., 1281
 Duckworth T. L., 1375
 Dueñas C., 841, 1077
 Duong Ng. D., 259
 Duroux J. L., 1561, 1565
 Eaton G. R., 1235, 1595
 Eaton S. S., 1235, 1595
 Ebina Y., 1527
 Ebraheem S., 345
 Ebrahim S., 247
 Eckelman W. C., 37
 Edwards A. A., 1341
 Efimov I. P., 887
 Eggersdörfer S., 1299
 Egger E., 1201
 Egorov A. G., 329
 Ehlermann D. A. E., 1547
 Eichhoff U., 1359
 El-Far F., 617
 El-Hussein A., 515
 El-Kelaney M., 345
 Elsinga P. H., 57
 Endo K., 235, 507
 Enomoto S., 235
 d'Errico F., 1201, 1335
 Erees F. S., 709
 Erickson R., 1211
 Erlandsson B., 417
 Ernst R., 1489
 Etcheverry M., 529
 Fagret D., 51, 479
 Falguères C., 1419
 Farid S. M., 383
 Fattibene P., 1201, 1335, 1375, 1569
 Fedosov I., 1281
 Feiner M., 967
 Feldman V. I., 1497
 Fernández F., 911
 Fernández M. C., 841, 1077
 Figel M., 1369
 Finin V., 1281
 Fisenne I. M., 795

Floris S., 1049
 Fluks E., 57
 Franssen E. J. F., 57
 Füchtner F., 61
 Fujii H., 123
 Fujiyoshi R., 165
 Fukuchi T., 1509
 Fuochi P. G., 1637
 Fuqin He, 309
 Furuta H., 1611
 Furuta R., 235

Galán M. P., 1115
 Gall K., 1197, 1533
 Gallez B., 1663
 Galtsev V. E., 1311, 1365
 Galtseva E. V., 1311
 Gamboa-Debuen I., 111
 Gann Ting, 207, 267
 Gao Juncheng, 1161
 Garcia-León M., 599, 1069, 1081, 1097, 1103, 1121
 Garcia-Orellana I., 1081
 Garcia-Tenorio R., 1069
 Garcias F., 849
 Garg A. N., 581
 Gaver O., 1317
 Germain P., 967
 Gerward L., 1149
 Ghannadi Marageh M., 501
 Ghelawi M. A., 1641
 Ghim B. T., 1235
 Ghose S., 33
 Gigante G. E., 219
 Ginsbourg S. F., 1381
 Giraddi T. P., 461
 Girzikowsky R., 1189, 1269
 Gleisberg B., 1113
 Göksu H. Y., 433, 1369
 Gómez E., 849
 Gómez Escobar V., 861
 Gohs U., 1169
 Gomei T., 165
 Gray R., 1629
 Grodzinsky D., 1357
 Groen J. S., 355
 Grover J., 513
 Guin R., 293, 643
 Gunawan J., 45
 Gunder O. A., 1557
 Gupta P. K., 191
 Gutiérrez A., 1539, 1655

Hamill T. G., 211
 Hancock G. J., 131
 Handl J., 967
 Harms A. V., 605
 Hartman N. G., 323
 Harvey B. R., 967
 Harvey E. B., 7
 Harvey J., 967
 Hasan S. M., 467
 Hasbany C., 1633
 Haselberger N., 455
 Hashimoto K., 171, 195
 Haskell E., 1281, 1305
 Hassan A. A., 617
 Hayes R., 1281, 1305
 Heide L. M., 433
 Heikoop J. M., 1437
 Helborg R., 417
 Hermann A., 445
 Herscheid J. D. M., 611
 Hirai M., 1433
 Hirunuma R., 235

Hötzl H., 1135
 Ho-Ling Liu, 543
 Hofstaetter A., 1579
 Holloway R., 967
 Holms A., 967
 Holschbach M., 489
 Horányi G., 551
 Houle S., 279
 van Hoyweghen J., 445
 Hsieh B.-T., 23
 Huh C. A., 967
 Hussain N., 473
 Hutchinson J. M. R., 1023
 Hütt G., 1329
 Hutton D. R., 1257
 Hyvernaud M. J., 1561

Ichikawa T., 1205
 Ignatieve E. A., 333
 Ikeya M., 1341, 1393, 1415, 1423, 1433, 1459, 1479, 1573, 1589, 1611
 Inn K. G. W., 967
 Ishii S.-I., 67, 507
 Ishiwata K., 507
 Itoh H., 457
 Itube G., J. L., 27
 Ivannikov A., 1281, 1359
 Izumo M., 171, 195

Jacob P., 433
 Janett A., 1223
 Janovsky I., 1201
 Jasinska M., 1089
 Jay M., 323
 Jayanthi N., 761
 Jerome S., 967, 971
 Jiang S. H., 669
 Jianhua Zhang, 497
 Jie He, 1457
 Jimenez A., 811
 Jiménez A., 927
 Jiménez-Reyes M., 273
 Jing-Long Du, 1235
 Jiunn-Hsing Chao, 723
 Jiwa D., 279
 Johannsen B., 61
 Johnström P. S., 401
 Jolley C., 623
 Jun-Cheng Gao, 1457
 Juncheng G., 1193

Kabalika G. W., 513
 Kadadevarmath J. S., 461
 Kai A., 1483
 Kalmykov S. N., 887
 Kamada H., 1605
 Kamal M., 33
 Kamarij Z., 591
 Kandaiya S., 361
 Kanouske K., 1433
 Karali T., 409
 Kasch H., 395
 Kasim N., 767
 Katayama M., 165
 Kawai K., 37
 Kenner G., 1281, 1305
 Keverline K. I., 79
 Khalkin V. A., 145
 Khamidova L., 1281, 1359
 Khanchi A. R., 501
 Khouri H. J., 587
 Kim G., 473
 Kira A., 441
 Kirillov V., 1281
 Klevezal G. A., 1321
 Klimova T. P., 1381

Knapp F. F. R. Jr, 7, 23, 267
 Kobayashi K., 171, 195
 Koch L., 755
 Kohno H., 1423, 1459, 1573
 Koike N., 507
 Koizumi H., 1205
 Koizumi M., 171
 Kojima H., 369
 Kojima T., 259, 457, 1223
 Kolesnik S., 1281
 Kolics A., 551
 Kondrashov A. E., 1359
 Kortov V. S., 1551
 Koshta A. A., 333
 Koshurnikova N. A., 1277
 Koslowsky V., 933
 Koul D. K., 191
 Kovaleva M. A., 1541
 Kozak K., 1089
 Kozlov V. A., 1359
 Krey P., 967
 Krnáč Š., 905
 Kruijer P. S., 611
 Krummeich C., 489
 Kubodera A., 37
 Kumai H., 1599
 Kumar V., 697
 Kuntz F., 1183
 Kuppusamy P., 1345

L'Annunziata M. F., 659, 767
 L'vov S. G., 1615
 Lahiri S., 1, 413
 Lambert C. R., 7
 Lambrecht R. M., 171
 Larsen I. L., 967
 Larsen R. H., 135
 Latrouite D., 1049
 Laurec J., 1043
 Lebedev Y. S., 1311
 Lecerf N., 1165, 1419
 Lee K. H., 361
 Leide-Svegborn S., 417
 León Vintró L., 875
 Lesgards G., 1633
 van Leuffen P. J., 611
 Liang J. H., 669
 Libin L., 1523
 Lie-Hang Shen, 267
 Liekhus K., 713
 Liger E., 841, 1077
 Liggett W. S., 967
 Liidja G., 785, 1281
 Likhtarev I., 1281
 Lin Z., 967
 Lippmaa E., 785, 1281
 Liu C-K., 967
 Lizhong L., 1523
 Ljubić A., 751
 Lloyd D. C., 1341
 Logan B. A., 751
 Longoria L. C., 339
 Lopes R. T., 1647
 Los Arcos J. M., 879
 Loska L., 229
 Lozano J. C., 861
 Lueck R., 1489
 Luk'yanets E. A., 1541
 Lund E., 1211
 Lundqvist H., 297
 Lyons R. G., 1385
 Lyzlov A. F., 1277

Mäder K., 1663, 1669
 Mäding P., 61

MacMahon D., 1141
 Mahmood N., 33
 Mai H. H., 259
 Maksimenko V., 1281
 Mal'tseva E. L., 1683
 Malimath G. H., 461
 Maming, 659, 767
 Manjón G., 1097
 Mansfield R. K., 323
 Mantian Liu, 309
 Marchesini R., 717
 Marchetti A. A., 97
 Marchioni E., 1183
 Marek M. J., 7
 Markowicz A., 455
 Martín Sánchez A., 861, 899
 Martínez-Aguirre A., 599, 1081, 1103, 1121
 Martin G., 951
 Martin P., 131
 Mathews W. B., 211
 Mathieu J. P., 51
 Matsuoka H., 171
 Matthys P., 1241
 Mattsson S., 417
 Matyash M., 1317
 Mauerhofer E., 649
 McCallum B. A., 1003
 McCurdy D., 967
 Meckbach R., 433
 Mehta K., 1155, 1189
 Meijer A., 1281
 Mietelski J. W., 1089
 Mihajlović V., 1419
 Miki T., 1527, 1599
 Milinchuk V. K., 1557
 Millies-Lacroix J.-C., 951
 Milman I. I., 1551
 Milton J. C. D., 933
 Min-Nan Chen, 267
 Mincher B. J., 713
 Minchin P. E. H., 693
 Minenko V., 1281
 Miro C., 811
 Mirzadeh S., 289
 Misdaq M. A., 821
 Mishra S. P., 15
 Mitchell P. I., 875
 Mitsui K., 369
 Molodkov A., 1427
 Monchaux G., 355
 Mondelaers W., 1241
 Montero P. R., 899
 Moore J. S., 1641
 Morel J., 529
 Morishita N., 457
 Morlier J. P., 355
 Moroz I. A., 1321
 Mouchel D., 1033, 1061
 Mouchel R. W. D., 911
 du Moulinet d'Hardemare A., 479
 Mrakata C., 67
 Müller A., 1299
 E. Muñoz P., 1657
 Muraki Y., 369
 Murata T., 1527, 1599
 Musachio J. L., 79, 211
 Mushtaq A., 727

Nagadi M. M., 241
 Nagy V. Yu., 789
 Naicker S. S., 71
 Nair A. G. C., 643
 Nakanishi A., 1589
 Nambi K. S. V., 191

Naqvi A. A., 241
 Natake T., 123
 Navarro E., 811
 Navarro N., 869
 Naylor E. M., 211
 Newton D., 127
 Nicolaou G., 755
 Niess S., 1109, 1113
 Nilsson L.-E., 417
 Niu H., 575
 Noble C. J., 1257
 Nobrega J. N., 279
 Noguchi J., 507
 Noor A., 659, 767
 Nosslin B., 417
 Notohamiprodjo G., 45
 Noujaim A. A., 71
 Núñez-Lagos R., 1011
 Nurr L. A., 767

Ochab E., 1089
 Ochin D., 1633
 Oda K., 507
 Odell K. J., 967
 Ogata T., 1605
 Ohashi Y., 369
 Ohta H., 37
 Ohya-Nishiguchi H., 1605
 Oikawa K., 1605
 Oka T., 1589
 Okada A., 369
 Ölmez S., 409, 709
 Olsson S., 1211
 Onori S., 1201, 1223, 1335, 1569, 1637
 Osa A., 171
 Osvath I., 1127
 Oufni L., 821
 Owens P. N., 699
 Oyedele J. A., 315
 Oyer R., 1061
 Özmutlu E. N., 185

Pabst J. Y., 1183
 Pal'mina N. P., 1683
 Panfilov A. P., 1277, 1359
 Pang T. Y. M., 947
 Paniagua J. M., 811, 939
 Pantaloni M., 1223, 1335, 1569, 1637
 Pao-Shan Weng, 83, 159, 285
 Pardillo J., 1115
 Pasalskaya L., 1281
 Pascali C., 717
 Pasqualini R., 51
 Past J., 785, 1281
 Patnaik A., 761
 Pavlenko J., 1287
 Pelayo M., 927, 1115
 Penev I., 981
 Penicaut B., 1565
 Pérez Del Villar L., 927, 1115
 Periáñez R., 1121
 Perkin E. M. E., 971
 Pfenniger S., 1235
 Pilbrow J. R., 1257, 1465
 Pin-Chieh Hsu, 83
 Plagnard J., 529
 Pointurier F., 1043
 Polyakov A. N., 451
 Polyakov V., 1329
 Popa-Simil L., 745
 Popplewell D. S., 967
 Povinec P. P., 1005, 1127
 Ptasiński J., 229
 Puskar J., 785, 1281
 Pykhtina E. V., 1541

Qaim S. M., 303, 569
 Quejido A., 927
 Quine R. W., 1235
 Quintana B., 911

Racolta P. M., 745
 Radchuk V., 1281, 1317
 Raffi J., 1633
 Rajendran K., 1171
 Rakvin B., 525, 1251
 Ramirez G. J., 27
 Randhawa G. S., 351
 Rani R., 697
 Rao D. V., 219
 Rasyid B., 659, 767
 Ravert H. T., 211
 Refai M. K., 617
 Regulla D. F., 1263, 1277, 1293
 Remez V. P., 885, 887
 Reys J. L., 1049
 Rhodes B. A., 7
 Riche F., 51
 Rinard G. A., 1235
 Rink J. W., 1393
 Roberts A. D., 563
 Rodríguez Barquero L., 879
 Rogers R. D., 497
 Romanyukha A. A., 333, 1277, 1293
 Römer J., 395
 Romero M. E., 1655
 Rosner G., 1135
 Rossi A. M., 1443, 1647
 Roth P., 1055
 Ruckerbauer F., 1263
 Rudolph M. N., 1399
 Rufo M., 939
 Ruth T. J., 563
 Ryan T. P., 875

Sadlo J., 1219
 Saha S. K., 293, 643
 Saikat S. Q., 33
 Sakiyama Y., 507
 Sánchez M., 927
 Sánchez-Aguirre F. J., 273
 Sang-Yeob Lee, 1533
 Santos L. A. P., 587
 Santucci M., 1569
 Sapozhnikov Y. A., 885, 887
 Sasaki T., 67
 Sasaoka H., 1415
 Satif C., 821
 Scalliet P., 1177
 Scarpetta S. C., 795
 Schaecken B., 1177
 Scharmann A., 1151, 1579
 Schauer D. A., 1345
 Scheib S., 1579
 Scherbina O., 1317
 Schima F. J., 967
 Schirrmüller L., 1489
 Schmidt S., 1049
 Schönbacher H., 1223
 Schramel P., 1055
 Schramm D. U., 1443
 Schwalbach P., 755
 Schwarcz H. P., 1393, 1409
 Sekine T., 171
 Senda M., 67 507
 Sephton J. P., 1171
 Serago C., 1197
 Serezhkinov V. A., 1321
 Serzhant I., 1357

Severtson S. J., 319
 Shaheen S., 241
 Shakun N. G., 145
 Shan-Wen Lin, 83
 Shao-Bo Diao, 1457
 Sharpe P. H. G., 1171
 Shchukin G. E., 329
 Shibata S., 369
 Shigeta N., 171
 Shilnikova N. S., 1277
 Shiraishi K., 1527
 Shishlyannikov P. T., 145
 Sholom S., 1281, 1287
 Shu-Ying Lai, 159
 Shyh-Jen Wang, 267
 Sierakowski S., 153
 Signoretti E. C., 1569
 Silaev V. A., 1615
 Silva C. J. G. C., 587
 Sima O., 889, 919
 Simonits A., 389
 Singh K., 697
 Singh V. K., 15
 Singhvi A. K., 191
 Sitowska B., 105
 Skinner A. R., 1399
 Skog G., 417
 Skvorcov V., 1281, 1359
 Slegers G., 201
 Smith S. V., 289
 Smolinski S., 153
 Solache-Rios M., 27
 Soliman F. A. S., 175
 Somayaji V. V., 71
 Sonck M., 445
 Song R., 1257
 Soodprasert T., 1023
 de Soto F. F., 129
 Sprunc M., 1263
 Spyrou N. M., 777
 Stegailov V. I., 145
 Steinbach J., 61, 395
 Steinbauer E., 1061
 Stenström K., 417
 Stepanenko V., 1281
 Stepanenko V. F., 1359
 Stewart E. M., 1629
 Stöcklin G., 489
 Stoesser R., 1489
 Stone-Elander S., 401
 Stoneham D., 1369
 Straume T., 97
 Strong J. C., 355
 Struwe H., 1141
 Stuglik Z., 1219
 Su-Ying Lai, 285
 Sueki M., 1595
 Sugawara N., 1589
 Sumitomo H., 1341
 Suzuki F., 507
 Swartz H. M., 1663, 1669
 Sykes T. R., 71
 Syczewski A., 1675
 Tagami K., 1057
 Takács S., 303
 Takahashi T., 369
 Takue M., 123
 Talbot R. J., 127
 Tanaka A., 235
 Tani A., 1423
 Tárkányi F., 303
 Tarter I., 1165
 Taskaev E., 981
 Taskaeva M., 981
 Tavlet M., 1223, 1231
 Taylor D. M., 947
 Te-Wei Lee, 207
 Teli M. T., 365
 Theodórrson P., 827, 855
 Thorpe M. R., 693
 Tibbets C., 513
 Tiecheng L., 1523
 Tich-Chi Chu, 159, 285, 543
 Tikhunov D. D., 1359
 Ting G., 23
 Tiwari D., 15
 Togashi H., 1605
 Tolmachev V., 297
 Toribara T. Y., 301
 Toyama H., 507
 Toyoda S., 1393, 1409
 Tozawa M., 235
 Trihi M., 1561
 Tsukamoto S., 1437
 Tsyganov Yu. S., 451
 Turk M., 377
 Turska M., 105, 153
 Twining J. R., 801
 Uchida S., 1057
 Ulanova L. A., 1541
 Ulusoy U., 1405
 Ünak P., 645
 Ünak T., 645
 Usatyi A. F., 1351
 Ushida K., 441
 Uysal I., 93
 Vaalburg W., 57
 Vaca F., 1097
 Vaher U., 1281
 Vaichulis P. P., 1359
 Vainstein D. J., 1503
 Valiulis M. B., 513
 Valkovic V., 455
 Valvo L., 1569
 Van Den Berg G. J., 933
 Van Laere K., 1241
 Vandersteen L., 201
 Vanin A. F., 1321
 Vareliš P., 731
 Vargas M. J., 129
 Vasilenko E. K., 1277
 Vazquez M., 1657
 Vera Tomé F., 861, 899
 Verburg T. G., 933
 Verein N. V., 1351
 Vidal M., 51, 479
 Virk H. S., 351
 Virto A., 1011
 Visser G. M., 57
 Vitol A. Y., 1615
 Volaric B., 377
 Voronkina N. I., 1557
 Wagner J. P., 1183
 Walling D. E., 699
 Wang-Yu Lin, 267
 Waqif Husain S., 501
 Warren B. B., 967
 Warwick P. E., 627
 Weiser A., 1223
 Wendler I., 1055
 Werner E., 1055
 Wiebert A., 417
 Wieland B. W., 135
 Wieser A., 333, 1269, 1277, 1281, 1299,
 1369
 Williams D. R., 947
 Wilson A. A., 279
 Winkler G., 1147
 Winkler R., 1135
 de Wispelaere A., 389
 Wolterbeek H. Th., 605, 933
 Woods M. J., 967, 971
 Woods S. A., 835
 Wordel R., 1033, 1061
 Woroniecka U. D., 605
 Wu S.-C., 575
 Xianguan Long, 309
 Xiufeng Peng, 309
 Yamamoto M., 967
 Yamanaka C., 1341, 1415, 1423, 1459,
 1573, 1611
 Yamashiro A., 1599
 Yanaga M., 235
 Yener G., 93, 409
 Yesirkenov E., 1357
 Yiyun Z., 1523
 Yokoyama H., 1605
 Yoshida H., 1205
 Young P., 967
 Yücel H., 535
 Yu-Guang Ye, 1457
 Zaitseva N. G., 145
 Zaiyong W., 1193
 Zakir M., 659, 767
 Zalutsky M. R., 135
 Zei-Tsan Tsai, 267
 Zeneli D., 1231
 Zhong Y. C., 1257
 Zijlstra S., 45
 Zimmerman B. E., 677
 Zippi E. M., 513
 Zweier J. L., 1345

SUBJECT INDEX VOLUME 47

Accelerator

Radiation accident: assessment of dose using EPR spectrometry and imaging of bone 1345

Accident

Criticality dosimetry with ESR spectroscopy 1335

Dosimetry of overexposure using EPR spectrometry and imaging of bone 1345

Kiisa(Estonia): γ -ray dose assessment* 1329

Actinides

Determination in urine samples 869

Activation analysis

Absolute NAA: K_e standardization for the $^{174}\text{Yb}(n,\gamma)^{175}\text{Yb}$ reaction 389

INNA

Improvement in counting statistics and in the limit of detection with a Compton suppression spectrometer 649

Study of pollution around a petroleum refinery complex by study of rumen ash of buffaloes 581

Use to determine Se,Th,Zn,Co and Fe in yeast cells 105

Use to study the interaction between Se and Te in yeast cells 153

Neutron:use to determine selenium in biological samples 735*

Adenosine A_{2A} antagonist

Synthesis and evaluation of [^{11}C]KF 17837 507

Adsorbent

Use of alginates to preconcentrate ^{90}Sr from water 887

Use of Anfez to concentrate radiocesium from water 885

Use of hydrous zirconium oxide to remove mercury from aqueous solutions 15

Aerosols

Composition using a single comparator method by delayed photon spectrometry 761

Agarose

-Alanine gel: data response and fading characteristics on irradiation 1211

Air

Atmospheric(in Malaga,Spain): natural radioactivity levels 1077

Indoor: radon progeny 515

Alanine

-Agarose gel: dose response and fading characteristics 1211

Dosimeter

Behaviour in an ozone environment 1231

Evaluation for radiotherapy 1177

NPL:as reference for radiotherapy 1171

Quality control 1165

Response at cryogenic temperatures 1223

Dosimetry system:application in radiation processing 1169

EPR system:response to proton therapy beams 1197

-ESR dosimeter:feasibility for *in vivo* dosimetry 1183

-ESR dosimetry

Improvement of sensitivity 525

In criticality accident assessment 1335

* Denotes a Technical Note.

† Denotes a Letter to the Editor.

Numerical signal and treatment	1263
Use for industrial radiation processing	1161
ESR spectrum:study of composite character	1241
-ESR system(NIM):application to therapy dose range	1193
-ESR system as dosimeter for radiotherapy	1189
Fluorescence quenching of liquid scintillators: effect of solvent	461
γ -irradiated-L- α -alanine: complex time dependence of EPR signal	789
γ -irradiated:pulsed EPR investigation	1257
γ -ray dose intercomparison with dichromate dosimeter	259*
Irradiated:double modulation ESR study	1251
Irradiation with γ -rays and ion beams;radiation chemistry	1205
L- α - dosimetric response on 3.4MeV/amu ^{90}Co ion beams	1219
Pellets and films:dosimetric response to proton beams	1201
<i>Alginates</i>	
Use to preconcentrate ^{90}Sr from water	887
<i>Algorithm</i>	
Levenberg-Marquardt:application to the fitting of α -spectra	899
<i>Alkali halide</i>	
Irradiated:ESR and ESR-imaging	1615
<i>2-Alkoxyisobutylisonitrile</i>	
Synthesis,reactivity and ^{99m}Tc labelling	207
<i>Alkyl radical</i>	
Selective localization in irradiated hydrocarbons	1497
<i>Alpha particle</i>	
Bombardment of natural silver:excitation functions and yields	309
Emitter:measurement in sodium iodide scintillators	997
Gross activities in ground waters in Western Anatolia	709
Irradiation :study of effects produced in evaporites by ESR	1459
5.3MeV: response of TLD	111
<i>Aluminum</i>	
Elastic and Compton scattering cross sections	219
<i>Aluminosilicates</i>	
ESR of trapped holes and electrons	1489
<i>Americium</i>	
^{241}Am :determination in urine	869
^{241}Am : review of analytical techniques for determination in soils and sediments	627
Determination in low level reactor wastes	1113
<i>γ-Amino butyric acid</i>	
Radiation induced radicals in natural carbonates:ESR study	1481
<i>Ammonia</i>	
^{15}N ammonia: improvement of target material for PET studies	513
<i>Ammonium radical</i>	
Identification from quartet signal in alkali feldspar	1415
<i>ANFEZH(ferric potassium hexacyanoferrate on cellulose carrier)</i>	
Use as a sorbent in determination of Cs radionuclides in water	885
<i>Animal</i>	
Buffalo: activation analysis of rumen fluid ash to evaluate environmental pollution	581
3D and 4D ESR imaging system	1605
Feedstuffs: detection of ochratoxin and control by γ -radiation	617
Intercomparison of measurement techniques used in radon exposure facilities	355
Sheep: chemical speciation of ^{137}Cs in meat	947

<i>Antibiotic</i>	
Irradiated for sterilization: identification by ESR	1569
<i>Antibody</i>	
Monoclonal:synthesis and characterisation of DTPA hydrazide for selective labelling with ^{111}In	623
^{188}Re labelling	7
<i>Antigen</i>	
Scintillation proximity radioimmunoassay with microporous membranes	323
<i>Antimony</i>	
Elastic and Compton scattering cross sections	219
Sorption on Haro river sand	467
<i>Apparatus</i>	
For automatic monitoring and disposal of radioactive gases from hot cells in a PET facility	717
Microcomputer controlled module for preparation of 14(RS)-[^{18}F]-fluoro-6-thia heptadecanoic acid	45
<i>Aragonite</i>	
ESR,ENDOR and general triple resonance	1443
<i>Arene</i>	
Electrophilic radioiodination using Iodogen™	489
<i>Ascorbic acid</i>	
-Saline eluant:use to increase yield of ^{188}Re after "wet storage" of generator	23*
<i>Ash</i>	
Determination of ^{238}U and ^{210}Pb by low energy scintillation spectrometry	93
<i>Astatine</i>	
^{211}At :evaluation of internal cyclotron target for production	135
<i>Atom</i>	
Muonic: radiationless transitions	751
<i>Attenuation coefficient</i>	
Of dilute solutions of KCl for γ -radiation	365*
Of germanium detectors: effect of photon interaction depth	535
Of 123keV γ -radiation by dilute sodium chloride solutions	1149†
Photon,linear: of normal and pathological breast tissues	777
<i>Background</i>	
Cosmic ray induced: reduction by an anti coincidence shield	1043
Discrimination technique using a multiple detector event recording system	1061
Reduction for germanium detectors	1011
<i>Barite</i>	
Effect of α -irradiation and pulsed ESR measurements	1459
<i>Barium sulphate</i>	
X-ray storage phosphors:EPR and ENDOR investigations	1579
<i>Beam</i>	
Energy determination for a multiparticle cyclotron	445
Ion:radiotherapy of alanine	1205
3.4 MeV/amu ^{59}Co ion :dosimetric response of L- α -alanine and bone powder	1219
Proton:alanine -EPR dosimetric response	1197
Proton: response of alanine based pellets and films	1201
<i>Benzene</i>	
Scintillator: energy resolution measurements for γ -rays	241

<i>Bequerel</i>	
Realization of the unit	423
<i>Beryllium</i>	
⁷ Be:continuous monitoring of wet and dry deposition to give indication of origin	1135
<i>Biocarbonate</i>	
ESR,ENDOR and general triple resonance studies	1443
<i>Bismuth</i>	
Use as cyclotron target for ²⁰⁹ Bi(α ,2n) ²¹¹ At reaction	135
<i>Bone</i>	
EPR dosimetry:optimal registration conditions at low accumulated dose	1311
Imaging and EPR spectrometry:use in radiation exposure following accidental overexposure	1345
Irradiated: factors affecting ESR dose estimate	1637
Powder: dosimetric response on 3.4MeV/amu ⁵⁹ Co ion beams	1219
Proton dosimetry using ESR	1533
Use in postmortem assessment of radioactive dose	1341
<i>Book review</i>	
Computerised glow curve deconvolution :application to thermoluminescent dosimetry	825
Quality control and radiation protection of the patient in diagnostic radiography and nuclear medicine	387
Radiobiology and dosimetry of inhaled nuclides	603
<i>Brain</i>	
Imaging of protein kinase C: synthesis of [7 β -methoxy ¹¹ C] methoxy staurosporine	67
<i>Breast</i>	
Estimation of radiation dose in mammography	361*
Normal and pathological tissue: photon linear attenuation coefficients and water content	777
<i>Brick</i>	
Depth dose distribution by thermoluminescence and Monte Carlo calculation for γ - dose reconstruction	433
ESR spectrometry for determination of radiation dose	1381
<i>Bromophenol blue</i>	
Dyed polyvinyl alcohol film: use as high dose film dosimeter	345
<i>Cadmium</i>	
Elastic and Compton scattering cross sections	219
¹⁰⁷ Ag(α ,pn) ¹⁰⁹ Cd: excitation functions and yields	309
<i>Calcite</i>	
ESR,ENDOR and general triple resonance studies	1443
Use as case study in dating by ESR spectrum	1385
<i>Calcium</i>	
Carbonate doped with γ -amino butyric acid and glycine:ESR study of radiation induced radicals	1481
<i>Carbon</i>	
¹⁴ C: minimum detectable activity with LS counters using LOLES procedure	879
³ H ¹⁴ C ratios: pulse height spectral analysis	767
<i>Carbon dioxide</i>	
¹⁴ C labelled: measurement by AMS in fat metabolism studies	417
<i>Carbon tetrachloride</i>	
Fluorescence quenching of liquid scintillators: effect of solvent	461

<i>Carbonates</i>	
ESR investigation of trapped holes and electrons	1489
<i>Cavity resonator</i>	
With field gradient coils: use in EPR-CT microscope	1599
<i>Cellulose</i>	
Triacetate: improvement of dosimetric properties	247
<i>Cephalosporins</i>	
Irradiated for sterilization:identification by ESR	1569
<i>Cerenkov</i>	
Analysis of the triple label ^{86}Rb - ^{35}S - ^{33}P	659
Counting as a complement to LS counting	795
<i>Cerium</i>	
Determination in low level reactor wastes	1113
(III) silicate: use as an ion exchanger for radionuclide separation	501
<i>Cesium</i>	
Chemical speciation in sheep meat	947
Determination in water systems using composite solvents	885
Levels of ^{134}Cs and ^{137}Cs in sea water in the Bay of Bengal	33*
^{137}Cs	
Concentration in a Spanish alkaline pulp mill	1097
Concentration in soils and forest plants in Taiwan	159
Contamination of soil in Taiwan:use as plants as a bio-indicator	285
Continuous monitoring of wet and dry deposition to give indication of origin	1135
γ -ray spectra:scaling confirmatory factor	905
Source: γ -ray dose assessment after 1994 accident at Kiisa (Estonia)	1329
Spatial variability at reference sites	669
<i>Chelating agent</i>	
Bifunctional,2-(<i>p</i> -aminobenzyl)-1,3-propanediamine N,N,N',N'-tetra-acetic acid:optimization of protein conjugation	71
<i>Chlorine</i>	
Concentration in mixed saliva of healthy and cystic fibrosis children	273
^{36}Cl concentration in lichens collected in 1990 around Chernobyl	933
<i>Chromium</i>	
$^{48,49,51}\text{Cr}$:LLX separation from α -activated Ti with HDEHP	1
<i>Cigarette</i>	
Smoke: determination of ^{210}Po by deposition on metals	409
<i>Coal</i>	
Determination of ^{238}U and ^{210}Pb by low energy scintillation spectrometry	93
<i>Cobalt</i>	
$^{55,56,58}\text{Co}$: separation carrier free from α -activated iron with triiso-octylamine	413
^{57}Co sorption on gold:application of 'Foil'(Joliot) method to measurement	551
^{60}Co ,panoramic source:evaluation for irradiation of geological samples for dating procedures	1419
Levels in yeast cells:use of INAA	105
3.4MeV/amu ^{59}Co ion: dosimetric response of L- α -alanine and bone powder	1219
<i>Code</i>	
Computer code QAD-CGGP :use to calibrate detection systems	669
P-C based operating with an E-TOF detector in obtaining α - α sequences for heavy ion reaction products	451*

<i>Colloid</i>	
Sodium:ESR study in irradiated NaCl	1503
<i>Complex</i>	
Cyclic tetramine{ ^{99m} TcO ₂ }complexes: synthesis and biodistribution (in French)	51
¹⁸⁸ Re-MDP synthesis using carrier free ¹⁸⁸ Re	195
^{99m} Tc di-isocyanide and tri-isocyanide: synthesis and evaluation	479
<i>Compton back scattering</i>	
Suppression system: optimization by escape peak ratios	575*
<i>Copper</i>	
Elastic and Compton scattering cross sections	219
Use of Monte Carlo calculations to simulate transport of positrons	185
<i>Coral</i>	
Determination of sulfite radicals from ESR signal intensity measurements	1437
<i>Cosmic rays</i>	
Induced background: reduction	1043
<i>Counting</i>	
Active background discrimination technique	1061
Cerenkov	
Accuracy using a liquid scintillation spectrometer	123*
And liquid scintillation analysis of the triple label ⁸⁶ Rb- ³⁵ S- ³³ P	659
As a complement to LS counting	795
Liquid scintillation: of wood-fiber sorbed ¹⁴ C organics	319
Low background facility at Labatori Nationali del Gran Sasso	991
Low level:review of past,present and future	827
Low level techniques:application to measurement of water and biological samples	1109
Low level techniques for determination of radioisotopes in low level reactor wastes	1113
Statistics improvement with a Compton suppression spectrometer	649
Very low level: selection of shielding material	1033
<i>Crustacean</i>	
Carapaces:age determination using ²³⁸ Th/ ²²⁸ Ra measurements	1049
From Mururoa test site:results of measurement by SMSRB	951
<i>Curium</i>	
Concentration in low level power reactor	1113
<i>[¹¹C] Cyanamide</i>	
Synthesis	611
<i>Cyclohexane</i>	
Scintillator:energy resolution measurements for γ -rays	241
<i>Cyclotron</i>	
Energy calibration of beams	445
Evaluation of target for production of ²¹¹ At	135
Use to produce ²² Na	303
Use to produce ¹⁸³ Ta	171
<i>Czubek,Jan</i>	
Obituary	(4) iii
<i>Dates</i>	
Irradiated:detection by ESR	1641
<i>Dating</i>	
ESR	
Choice of inorganic and organic materials	1479
Of geological fault with isochrone method applied to granite grains	1423
Of <i>Lymnaea Balica</i> and <i>Cerastoderma glaucum</i> in sea deposits	1427
Preliminary study for solid SO ₂	1433

To estimate accumulated environmental dose	1385
Use of E' signal in quartz	1399
Of quartz by study of formation of E' ₁ -precursors	1393
Of quartz from Kapadokya, Turkey by ESR	1405
<i>Decay</i>	
Of ¹⁶⁶ Ho ^m : emission probabilities of Kx- and γ -rays	529
<i>2-Deoxy-2-[¹⁸F]fluoro-D-mannose</i>	
Preparation by epimerisation of [¹⁸ F]FDG	731
<i>Detector</i>	
Alanine and sugar for criticality accident dosimetry	1335
CdZnTe: γ -ray spectrometry on nuclear material	755
CaF ₂ :Tm (TLD-300): effect of storage time and photon energies on kinetic parameters of glow curves	83
Calibration methods for radwaste	669
CR-39 and LR-115 solid state nuclear track: use to study granulation influence on uranium content of phosphate samples	821*
Cr-39 nuclear track: use to measure radon in groundwater	383
For monitoring γ -radiation from extended source with uniform sensitivity	693
For monitoring radioactive gaseous compounds from a PET facility	717
Germanium	
Dependence of photon interaction depth on linear attenuation coefficient	535
Energy peak efficiency as a function of energy and distance	339
Shielding and background reduction	1011
Use of Monte carlo simulations for computation of self attenuation factors and coincidence summing corrections	889
HgGe and Na(Tl) for use in under water γ -spectrometry	1127
Low energy HgGe: design for radioactivity measurements at levels below environmental	1033
Media for ESR-TSL-TSEE dosimetry	1551
Non-discriminating γ -radiation: calibration	1003
PIN silicon photodiode: use for soil-water content determination	587
Review for low level counting	827
Semiconductor: use to select single peaks in γ -spectra	229
Si(Li)x-ray: comparison of conventional and thermoelectrically cooled types	455*
TLD-100: influence of annealing on response to 5.3MeV α -particles	111
Track:track etching characteristics of glass	351
Use of tooth enamel for retrospective EPR dosimetry	1299
<i>2,4-Dichlorophenol</i>	
¹⁴ C labelled: direct LSC when sorbed to pulped wood fibres	319
<i>Dichromate</i>	
γ -ray dose intercomparison with an alanine dosimeter	259*
<i>Diffusion</i>	
Thermal: use to separate gallium isotopes from a Zn target	297*
<i>Dithiane intermediates</i>	
Use in synthesis of [¹¹ C] methyl ketones	57
<i>DOPA</i>	
Polymer bound 6-mercuric carboxylate precursor: synthesis	37
<i>Dopamine D-1 agonists</i>	
[¹¹ C] SKF 75670 and [¹¹ C] SKF 82957: synthesis and autoradiographic localisation	279
<i>Dosimeter</i>	
Alanine	

Behaviour in an ozone environment	1231
-EPR:response in proton therapy beams	1197
ESR imaging	1611
-ESR(NIM system):use in therapy dose range	1193
-ESR system for radiotherapy	1189
-ESR system:quality control	1165
-ESR:therapy level reference dosimetry service at NPL	1171
Evaluation for radiotherapy	1177
-Polystyrene dependence of γ -ray response on irradiation and ESR analysis temperature	457*
Response at cryogenic temperatures	1223
Cellulose triacetate:improvement of properties	247
Dichromate and alanine: γ -ray dose intercomparison in the absorbed dose range	259*
ESR based on metallodiphthalocyanines	1541
ESR based on <i>tris(hydroxymethyl) aminomethane</i>	1539
High dose: use of dyed PVA film	345
'In situ' in radiation disinfection: study of TL properties of sand collected from sewage sludge	115
Quartz sand:comparison of ESR/TLD analyses	1547
Thermoluminescent:comparison with ESR system for a human phantom	1359
<i>Dosimetry</i>	
Alanine:application for industrial radiation and radiation protection	1169
Alanine EPR systems: calibration curve	1269
Alanine-ESR	
For radiotherapy;IAEA experience	1189
Improvement of sensitivity	525
(NIM) system:extension to therapy level	1193
Optimization of spectra by numerical signal treatment	1263
System: for industrial radiation processing	1161
Assessment of accident absorbed doses with ESR spectroscopy	1335
Assessment of overall uncertainty using ESR technique	1287
Depth dose distribution in bricks to determine external γ -dose	433
EPR	
At low accumulated dose:optimal registration conditions for tooth enamel	1311
Based:assessment of large dimensional radiation fields(e.g. Chernobyl)	1351
Effect of metamorphic modifications in tooth enamel	1317
First results of international intercomparison with teeth	1281
Following accidental over exposure to accelerator beam	1345
Of tooth enamel:preparation induced errors	1305
Retrospective:use of tooth enamel as a detector material	1299
Selective saturation method with tooth enamel	333
ESR	
And TL systems:comparative measurements for human phantom	1359
Choice of organic and inorganic materials for a hybrid for radiation dosimetry	1479
Evaluation of dose from a ^{60}Co panoramic source used to irradiate geological samples	1419
Factors affecting measurements in bone	1637
Formation of E_1' centres in quartz	1393
High sensitivity portable spectrometer	1589
Postmortem assessment of radiation worker	1341
Retrospective:review of technological and methodological aspects	1293

Spectroscopy of building materials as technique	1381
-TSL-TSEE: new detector materials	1551
Use to estimate accumulated radiation dose in tooth enamel	1321
Estimation of breast radiation in a mammographic system	361*
γ -dose assessment after 1994 radiation accident at Kiisa(Estonia)	1329
High dose standardization service of IAEA	1155
Hiroshima dose reconstruction : search for neutron reactions	97
<i>In vivo</i> :potential use in radiotherapy	1183
Proton in bone using ESR	1533
Radiation intensity underground	369
Response and fading characteristics of alanine agarose	1211
Response of alanine based pellets and films to proton beams	1201
Response of L- α - alanine and standard bone powder on 3.4MV/amu	
^{59}Co beams	1219
Retrospective:use of pine resin and bark by EPR method	1357
Sugar-ESR system:critical evaluation	1375
Use of porcelain for assessment of retrospective dose	1369
Verification of occupational dose at Mayak nuclear plant in S.Urals	1277
<i>Drug</i>	
γ -sterilization induced free radicals in biodegradable systems:	
characterization by EPR	1669
Radiosterilization:ESR study of stability	1565
<i>DTPA</i>	
Hydrazide:synthesis and characterization	623
<i>E' centre</i>	
Formation in natural deformed quartz	1509
In quartz: effect of temperature	1393
Of quartz:abnormal response to irradiation dose	1457
<i>Ecosystem</i>	
Mediterranean: bioavailability and transfer of natural radionuclides	939
<i>ENDOR</i>	
Investigation of γ -irradiated steroid hormone crystals	1675
Investigations on the x-ray storage phosphors BaSO_4 and SrSO_4	1579
Studies of irradiated biocarbonates	1443
Study of radiation induced paramagnetic centers in human tooth	
enamel	1365
<i>Environment</i>	
Impact of uranium mining:determination by low level counting	1109
Low level measurements: calibration of detectors	1003
Pollution by NAA of rumen fluid ash of buffaloes	581
Radioactivity measurement:intercomparison exercises 1989-95 by NPL	971
<i>EPR</i>	
Dosimetry	
In tooth enamel:effect of metamorphic modifications	1317
Of tooth enamel:preparation induced errors	1305
Optimal registration conditions for tooth enamel at low accumulated	
dose	1311
Retrospective: use of tooth enamel as detector material	1299
With teeth:first results of international intercomparison studies	1281
Fundamentals	1465
Imaging of irradiated silicon dioxide	1595
Investigation of γ -irradiated steroid hormone crystals	1675
Investigations on the x-ray storage phosphors BaSO_4 and SrSO_4	1579

<i>In vivo</i> spectroscopy:use to study pathophysiology,physiology and pharmacology	1663
Of resin and bark of pine for retrospective dosimetry	1357
Pulsed :investigation of hyperfine structure in γ -irradiated alanine	1257
Signal	
Multifrequency: generation by L-alanine	1235
Of irradiated L- α -alanine: complex time dependence	789
Use in assessment of dose in large radiation fields e.g. Chernobyl	1351
Spectrometry:use in assessment of dose after accidental overexposure	1345
Studies of porcelain for assessment of dose	1369
Use to detect irradiated food	1621
<i>ESR</i>	
3D and 4D imaging system for small animals	1605
Dating of <i>Lymnaea baltica</i> and <i>Cerastoderma glaucum</i> in sea deposits	1423
Dating of quartz using the E' signal	1399
Dating : preliminary study on solid SO ₂	1433
Detection of irradiated seashells	1633
Dosimetry of deceased radiation worker	1341
Dosimetry system: comparison with TL system for a human phantom	1359
Double modulation study of irradiated alanine	1251
Equivalent dose in archeology and geology	1419
Fundamentals	1465
Imaging of alanine dosimeter annealed under thermal gradient	1611
Investigation of heavily irradiated alkali halide crystals	1615
Of irradiated cereals: effect of dose, storage time and temperature on signal	1657
Of irradiated citrus: influence of sample treatment on signal	1647
Of trapped holes and electrons in natural and synthetic carbonates, silicates and aluminosilicates	1489
Pulsed measurements of oxygen deficient type centers in quartz	1575
Quartet signal in alkali feldspars: effect due to •CH ₃ , •C ₂ H ₅ or •NH ₃ ⁺	1415
Radiation applications:review of past and present	1151
Radiation effects in inorganic and organics for dosimetry and dating	1479
Retrospective dosimetry:review	1293
Signal:effect of irradiation dose and storage in the cuticle of pink shrimp	1629
Signal in tooth enamel created by u.v. light	785
Signals in a fault guage sample; effect of abrasion on spatial distribution	1409
Spectra in irradiated bicarbonates	1443
Spectral analysis in dating	1385
Spectrometry of dental enamel: use to determine accumulated dose	1321
Spectrometry:use in evaluation of dose response and fading	
characteristics of alanine-agarose gels	1211
Spectroscopy of building materials as a dosimetry technique	1381
Spectroscopy:use in estimation of accident absorbed doses	1335
Spectrum of alanine:study of composite character	1241
Studies and dating of quartz from Kapadokya,Turkey	1405
Study of	
Defects in irradiated hydroxyapatite	1527
Defects produced by α and γ irradiation of evaporites	1459
Formation of primary radicals in irradiated solid hydrocarbons and polymers	1497
Proton dose to bone	1533
Radiation- induced organic radicals in CaCO ₃	1481
Sodium colloids in irradiated NaCl	1503

Technique; use to assess overall uncertainty of determination of dose	1287
Use to detect irradiation of dates	1641
Use to detect sterilization of antibiotics by irradiation	1569
Use to study formation of E' precursors in quartz	1393
<i>[¹¹C]L-159,884 : [¹¹C]N-[[4'(2-ethyl-5,7-dimethyl-3H-imidazo[4,5-b]pyridin-3-yl)methyl][1,1'-biphenyl]-2-yl[sulfonyl]-4-methoxy benzamide</i>	
Development as a non-peptide angiotensin II antagonist	211
<i>Ethyl radical</i>	
Identification from quartet signal in alkali feldspar	1415
<i>Ethyl [2-¹⁸F]trifluoroacetate</i>	
Reduction of isotopic dilution during synthesis	401
<i>Europium</i>	
Concentration in low level power reactor waste	1113
¹⁵¹ Eu(n,2n) ^{150m} Eu reaction : excitation functions	569
¹⁵² Eu: scaling confirmatory factor analysis of semiconductor γ -spectra	905
¹⁵⁵ Eu : evaluation of photon emission probabilities	329
<i>Evaporites</i>	
Effects of α -irradiation and pulsed ESR measurements	1459
<i>Excitation function</i>	
Of ²³ Ne(p,n) ²² Na reaction : determination	303
Of ¹⁰⁷ Ag(α ,n) ^{108m} In, ¹⁰⁷ Ag(α ,2n) ¹⁰⁹ In and ¹⁰⁹ Ag(α ,2n) ¹¹¹ In, ¹⁰⁷ Ag(α ,pn) ¹⁰⁹ Cd	309
Of ¹⁰⁹ Ag(n,2n) ^{108m} Ag, ¹⁵¹ Eu(n,2n) ^{150m} Eu and ¹⁵⁹ Tb (n,2n) ¹⁵⁸ Tb reactions	569
<i>Extraction</i>	
Sequential-radiotracer technique: use to study sorption of Zn(II) on marine sediments	165
<i>Fallout</i>	
Wet and dry: continuous monitoring of ¹³⁷ Cs and ⁷ Be to give indication of origin	1135
<i>Fat</i>	
Metabolism studies using AMS for ¹⁴ CO ₂ measurements	417
<i>Fault</i>	
Geological: dating by ESR isochrone method	1423
Geological: dating of movement by spatial distribution of ESR signals	1409
<i>Feedstuff</i>	
Animal: detection of ochratoxin and control by γ -radiation	617
<i>Feldspar</i>	
Free radical identification from quartet signal	1415
<i>Fertilizer</i>	
Factory: ²¹⁰ Pb distribution in rivers and sediments	599*
Plant: impact of U and Th isotopes in estuarine system	1121
<i>Fiber optic systems</i>	
Radiation testing	175
<i>Film</i>	
Alanine based: dosimetric response to proton beams	1201
Dyed polyvinyl alcohol: use of a high dose film dosimeter	345
<i>Fish</i>	
From Mururoa test site: results of measurements by SMSRB	951
Intercomparison studies of γ -spectrometry on milk powder and fish	801
<i>Fluorine</i>	
³⁰ Ne(p,x) ¹⁸ F yields with 19-41 MeV protons	563
<i>[¹⁸F]FDG</i>	
Epimerization under basic conditions for preparation of 2-FDM	731

2-¹⁸F <i>DG</i>	
Preparation by basic hydrolysis of 2-[¹⁸ F] fluoro-1,3,4,6-tetra-O-acetyl-D-glucose	61
16α-1-¹⁸F <i>Fluoroestradiol</i>	
Synthesis	395
2-[¹⁸F]Fluoro-1,3,4,6-tetra-O-acetyl-D-glucose	
Basic hydrolysis to produce 2-[¹⁸ F]FDG	61
14(R,S)-1-¹⁸F <i>Fluoro-6-thia-heptadecanoic acid</i>	
Routine production by a microcomputer module	45
Food	
Irradiated cereals: effect of dose, storage time and temperature on ESR signal	1657
Irradiated: current status of EPR for detection	1621
Irradiation,quartz,sand dosimeter: comparison of ESR/TLD analyses	1547
Sheepmeat; chemical speciation of ¹³⁷ Cs	947
Forest	
Polish:radioactive contamination measurement method	1089
Free radical	
Characterization by EPR in γ -sterilized biodegradable drug systems	1669
Identification in alkali feldspars from quartet signal	1415
Study in irradiated PMMA by ESR	1561
Fruit	
Citrus:influence of sample treatment on ESR signal	1647
Dates: detection of irradiation by ESR	1641
Mango:identification of irradiation by ESR spectroscopy	1655
Fuel pins	
γ -ray spectrometry using a CdZnTe detector	755
Gadolinium	
¹⁵³ Gd: evaluation of photon emission probabilities	329
Gallium	
Rapid separation from Zn target by thermal diffusion	297*
Gamma rays	
Dose assessment after radiation accident in Kiisa(Estonia)	1329
662 keV:energy absorption coefficients	697*
Monoenergetic:energy resolution of benzene,toluene and cyclohexane scintillators	241
Natural in wells and pits:interpretation in phosphate deposits in Syria	591
Radiation chemistry of alanine	1205
Spectra: automatic analysis of continuum phenomena	911
Spectra factor analysis	905
Gas	
Natural,transport vessel: accumulation of ²¹⁰ Pb activity	925
Radioactive from hot cells in a PET facility: monitoring and disposal	717
Gel	
Alanine-agarose:dose response and fading characteristics on irradiation	1211
Generator	
¹⁷² Hf- ¹⁷² Lu: performance	643*
^{99m} Tc; use of polyethylene glycol based biphasic systems	497
¹⁸⁸ W/ ¹⁸⁸ Re for labelling antibodies	7
¹⁸⁸ W/ ¹⁸⁸ Re : increased yield after 'wet storage' by use of ascorbic acid/saline eluant	25*
¹⁸⁸ W- ¹⁸⁸ Re : recovery of enriched ¹⁸⁰ W	727
Glass	
Track detectors: track etching characteristics	351

Glycine	
Radiation induced radicals in natural carbonates:ESR study	1481
Gold	
Elastic and Compton scattering cross sections	219
Granite	
Fracture fillings:uranium isotopic distribution	927
Fracture in Nojima earthquake:ESR isochrone dating	1423
U and Th series: disequilibrium	1115
Gypsum	
Effects of α -irradiation and pulsed ESR measurements	1459
Hafnium	
^{172}Hf - ^{172}Lu generator:performance	643*
Half life	
^{63}Ni determination and critical review	677
^{237}Pu : rebuttal of Baba's criticism	127†
HDEHP	
Use to separate carrier free ^{47}Sc , ^{48}V and $^{48,49,51}\text{Cr}$ from α -activated Ti	1
Holmium	
$^{166}\text{Ho}^m$ decay : emission probabilities of $k\gamma$ and γ -rays	529
Hormone	
Steroid, γ -irradiated: EPR/ENDOR investigation	1675
Hydrocarbon	
Irradiated:ESR studies of selectivity of formation of primary radicals	1497
Hydroxyapatite	
Irradiated:ESR study of defects	1527
8-Hydroxy-quinolyl-glucuronide	
Radioiodination for use as anticancer drug	645*
IAEA	
Experiences with alanine-ESR dosimetry for radiotherapy	1189
High dose standardization service	1155
Ice	
Recent evolution of overall radioactive levels of Livingston Island (Antarctica)	811
Imaging	
3D and 4D ESR;use for small animals	1605
ESR of alanine dosimeter annealed under thermal gradient	1611
ESR: of heavily irradiated alkali halide crystals	1615
Protein kinase C localization in the brain:synthesis of [7β -methoxy ^{11}C] methoxy staurosporine	67
Indium	
Elastic and Compton scattering cross sections	219
^{110m}In , ^{109}In and ^{111}In : excitation functions and yields from α - bombardment of silver	309
^{111}In : carrier free separation from a silver matrix	293
^{111}In labelling of monoclonal antibodies : synthesis of DTPA hydrazide for selective labelling	623
Intercomparison studies	
EPR dosimetry with teeth:first results	1281
Of environmental radioactivity:review of NPL measurements	971
Of γ -spectrometry on biological samples	801
Of measurement techniques used in radon exposure facilities	355
Of ^{222}Rn measurement systems in European laboratories	835

<i>International committee for metrology</i>	
Fields of interest	1147†
Proceedings of conference on low level measurement techniques, Seville, Spain, 2-6 October, 1995	
Editorial	(9/10)vii
Foreword	(9/10)ix
<i>Intrinsic defects</i>	
In ionic materials: centers and mechanisms	1471
<i>Iodine</i>	
¹²⁵ I: limiting oxidation during radioiodination	301*
¹²⁷ I concentration in lichens collected in 1990 near Chernobyl	933
¹²⁹ I: low level determination in environmental samples by neutron activation	723
<i>5-Iodo-2'-deoxyuridine</i>	
Radio labelling (46 1039-46) : corrigendum	(2) I
<i>Iodo-gen™</i>	
Use for radioiodination of arenes	489
<i>Ion</i>	
Beam: reaction chemistry of alanine	1205
Heavy reaction products: α - α sequence	451*
<i>Ion exchange</i>	
Use of cerium III silicate in separation of radionuclides	501
<i>Ionic material</i>	
Intrinsic point defects	1471
<i>Iridium</i>	
Source: postmortem assessment of dose to radiographer	1341
<i>Iron</i>	
α -activated : separation of ^{52,56} Mn, ^{55,56,58} Co and ^{56,57} Ni with tri-isoctylamine	413
Determination in yeast cells by INAA	105
<i>Irradiation</i>	
γ : effect of pre and post crushing of tooth enamel in EPR dosimetry	1305
γ : study of stability of nitroimidazoles by ESR	1565
Industrial: application of an alanine dosimetry system	1169
<i>Kilius, Linas R</i>	
Obituary	(9/10)xi
<i>Kit</i>	
For preparation of ¹⁸⁸ Re labelled antibodies	7
<i>Lead</i>	
Elastic and Compton scattering cross sections	219
²¹⁰ Pb activity: accumulation on particulate matter in LPG rail cars	925
²¹⁰ Pb: determination in coal and ash by low energy scintillation spectrometry	93
²¹⁰ Pb : distribution in river water and sediments near fertilizer factories	599*
²¹² Pb levels in air in Malaga	1077
<i>Lichen</i>	
¹²⁹ I and ³⁶ Cl concentrations in 1990 around Chernobyl	933
<i>Lipid</i>	
Microviscosity in tumour membranes: effect of lethal radiation doses	1683
<i>Lipoiodol</i>	
¹⁸⁸ Re labelling: preparation and biodistribution studies	267
<i>Liquid</i>	
Mixture composition using the Neugat method	739
Scintillation analysis of ⁸⁶ Rb- ³⁵ S- ³³ P	659

Lithium

Carbonate with adsorbed glycine:ESR study of radiation induced radicals 1481
 Fluoride,irradiated:ESR and ESR imaging 1615

LLX separation

Use to extract ^{47}Sc , ^{48}V and $^{48,49,51}\text{Cr}$ from α -activated Ti 1

'LOLES' procedure

Use to determine the minimum detectable limits in low level assay of ^3H and ^{14}C 879

Luminescence

Optically stimulated(green) in porcelain:use for dose assessment 1369

Luminol

Use as a chemiluminescence scintillator in aqueous solutions 441

Lutetium

^{172}Lu generator: performance 643*

Machine

Metallic: resistance to wear testing 745

Magnesium

Elastic and Compton scattering cross sections 219

Mammography

Estimation of breast radiation dose 361*

Manganese

Elastic and Compton scattering cross sections 219

$^{52,56}\text{Mn}$: separation carrier free from α -activated iron with tri-isooctylamine 413

Valence variation induced by neutron oxidation of sapphire 1523

Marsh

Enhanced U and Th concentration 1081

Plants:transfer of radionuclides from soils 1103

Salt,radioactive impact of phosogypsum piles:evaluation by γ -ray spectrometry 1069

Mass energy absorption coefficients

For 662keV γ -rays in some compounds 697*

2-Mercaptoethanol

Cavaet on use in plant technetium speciation studies 605

Mercury

Removal from aqueous solutions by hydrous zirconium oxide: adsorption study 15

Metal

Resistance testing of metallic machine components by charged particle surface activation 745

Metallophthalocyanines

Use as dosimeter: correlation between ESR and spectrophotometric data 1541

[7 β -Methoxy ^{11}C]methyl staurosporine

Synthesis for imaging protein kinase C localisation in the brain 67

(R)-1-(4-[^{11}C]-p-Methoxyphenyl-4-phenyl-3-butenyl)-3-piperidine carboxylic acid

Synthesis 201

[^{11}C]Methyl ketones

Synthesis by [^{11}C] methylation of dithiane intermediates 57

Methyl radical

Identification from quartet signal in alkali feldspars 1415

Microscope

EPR-CT:use of cylindrical cavity resonators with field gradient coils 1599

<i>Milk</i>	
Powder: intercomparison studies of γ -spectrometry	801
<i>Mollusc shell</i>	
Use in ESR dating of sea and lake deposits	1427
<i>Molybdenum</i>	
Elastic and Compton scattering cross sections	219
<i>Monte Carlo calculations</i>	
Of low energy positrons in copper	185
Use to determine external γ -dose in bricks	433
<i>Monte Carlo simulations</i>	
Application to γ -spectrometric measurements of environmental samples	919
For γ -spectrometric measurements: self attenuation and coincidence summing corrections	889
<i>MOX pellet</i>	
γ -ray spectrometry using a CdZnTe detector	755
<i>Neodymium</i>	
^{147}Nd : separation from Th and U on a cerium III silicate ion exchanger	501
<i>Neon</i>	
Excitation function of $^{22}\text{Ne}(\text{p},\text{n})^{22}\text{Na}$ reaction	303
<i>Neugat</i>	
Use to determine composition of some liquid mixtures	739
<i>Neutron</i>	
Irradiation of sapphire: valence changes of Mn	1523
Reactions that could be useful for Hiroshima dose reconstructions	97
<i>Nickel</i>	
Elastic and Compton scattering cross sections	219
$^{56,57}\text{Ni}$: separation carrier free from α -activated iron with tri-isooctylamine	413
^{63}Ni : half life determination - critical review	677
<i>Nitroimidazoles</i>	
Radiosterilization: ESR study of stability	1565
<i>Obituary</i>	
Prof. Jan Czubek	(4) iii
Dr Linus R. Kilius	(9/10)xi
<i>Ochratoxin</i>	
Detection in animal feedstuffs and control by γ -radiation	617
<i>Ozone</i>	
Environment: effect on behaviour of alanine dosimeters	1231
<i>Palladium</i>	
Elastic and Compton scattering cross sections	219
<i>Paramagnetic resonance</i>	
In tooth enamel: created by u.v. light	785
<i>Particle</i>	
Charged -surface activation: use to measure resistance to wear of metallic machine components	745
<i>Peak</i>	
Single: selection in γ -spectra	229
<i>Pellet</i>	
Alanine based: dosimetric response to proton beams	1201
<i>Peroxy centre</i>	
Formation in natural deformed quartz	1509
<i>PET</i>	
Facility: detection and disposal of gaseous compounds from hot cells	717

<i>Phantom</i>	
Human: comparison of measurements by ESR and TL dosmetry	1359
<i>Phosphate</i>	
Deposit in Syria: interpretation of natural γ -rays	591
Sedimentary: study of granulation influence on uranium content	821*
<i>Phosphogypsum piles</i>	
Radioactive impact evaluation by γ -ray spectrometry	1069
<i>Phosphor</i>	
BaSO_4 and SrSO_4 : ESR and ENDOR investigations	1579
$\text{CaF}_2\text{:Tm}$: effect of storage time and photon energies on glow curves	83
Storage:radioactivity measurements	1023
TLD-100: influence of annealing on response to 5.3 MeV α -particles	111
<i>Phosphorus</i>	
Cerekov and LS analysis for determination in ^{86}Rb - ^{35}S - ^{33}P	659
<i>Photon</i>	
Interaction depth: dependence on linear attenuation coefficient in Ge detectors	535
Linear attenuation coefficients of normal and pathological breast tissues	777
<i>Pine(Pinus Silvestris)</i>	
Resin and bark:use for retrospective dosimetry by EPR	1357
<i>Plankton</i>	
From Mururoa test site:results of measurements by SMSRB	951
<i>Plant</i>	
Carbohydrate flow: monitoring γ -radiation	693
<i>Cistus ladanifer</i> : use to study bioavailability and transfer of natural radionuclides	939
From Mururoa test site: results of measurements by SMSRB	951
Lichen: ^{131}I and ^{36}Cl concentration in 1990 near Chernobyl	933
Nuclear: verification of occupational doses at plant in S. Urals	1277
Pine bark and resin: use for retrospective dosimetry by EPR	1357
<i>Spartina densiflora</i> and <i>Spartina maritima</i> : transfer of radionuclides from soil in wet marshland	1103
Technetium speciation studies:cavaet on use of 2-mercaptoethanol	605
Trees in Taiwan: ^{137}Cs concentrations	159
Use as a bioindicator of ^{137}Cs contamination of soil in Taiwan	285
<i>Plutonium</i>	
Concentration in low level power reactor waste	1113
Determination in urine	869
Measurement by LS spectrometry:quenching correction in presence of Pu α -particles	875
^{237}Pu half life:rebuttal of Baba's criticism	127†
Powder: γ -ray spectrometry using a CdZnTe detector	755
Separation from irradiated uranium and identification by α -spectroscopy	27*
<i>Polonium</i>	
^{210}Pb	
Deposition on metals to assess activity in cigarette smoke	409
In sediment samples by γ -ray spectrometry	473
Transfer from soil to plants in wet marshland	1103
<i>Polychlorinated biphenyl</i>	
Radiolysis ;in isooctane in presence of ozone	713
<i>Polyethylene</i>	
Irradiated:ESR studies of selectivity of formation of primary radicals	1497
<i>Polyethylene glycol</i>	
Based aqueous biphasic systems: use in ^{99m}Tc generators	497

Polymer	
γ -sterilization induced free radicals: characterization by EPR	1669
Microporous membranes: use in scintillation proximity radioimmuno assay	323
Polymethylmethacrylate	
Irradiated: ESR study of free radicals	1561
Polystyrene	
Cross linked: functionalisation for use as target material	513
Factors determining radiation stability	1557
Polyvinyl alcohol	
Dyed films: use as high dose dosimeters	345
Polyvinyl xylene	
Factors determining radiation stability	1557
Porcelain	
EPR, OSL and TL studies for assessment of retrospective dose	1369
Positron	
Simulation of transport in copper by Monte Carlo calculations	185
Potassium	
Chloride: linear attenuation (or absorption) coefficient of γ -radiation in dilute solutions	365*
^{40}K : radioactivity in sea water in the Bay of Bengal	33*
Program	
FITLOW: application to complex α -spectra	899
Protein	
Conjugation: optimization using an aldehyde derivatized bifunctional chelating agent	71
Protein kinase C	
Localization in the brain	67
Proton	
Dosimetry in bone using ESR	1533
Therapy beam: response of alanine-based pellets and films	1201
Therapy beam: response of alanine-EPR dosimeter	1197
Pulp mill	
In S. Spain: concentration of ^{137}Cs and ^{90}Sr	1097
Pulse height spectral analysis	
Of ^3H : ^{14}C ratios	767
Quartet signal	
Identification in alkali feldspars	1415
Quartz	
Fault gauge sample: effect of abrasion on ESR signal	1409
Feasibility of estimating firing temperature using the 110°C TL peak	191
Formation of E'_1 -precursors: applications to dosimetry and dating	1385
From Kapadokya(Turkey): ESR dating	1405
In coastal Eolin sand: abnormal response of E' -centers to irradiation dose	1457
Natural deformed: formation of E' and peroxy centers	1509
Pulsed ESR measurements of oxygen deficient type centers	1575
Sand as dosimeter: comparison of ESR/TLD analyses	1547
Use of E' signal in flint for ESR dating	1399
Quattro Pro™	
Use in radiometric spectral analysis	895
Quenching	
Correction when measuring ^{241}Pu in presence of $\text{Pu-}\alpha$ by LS spectrometry	875
Fluorescence of liquid scintillators: effect of solvent	461

Radiation

Applications of ESR past and present	1151
Chemistry of alanine irradiated with γ -rays and ion beams	1205
Effect on fiber-optic systems	175
Gamma	
Attenuation (or absorption) coefficient for dilute solutions of KCl	365*
Monitoring from an extended source with uniform sensitivity	693
Use in the control of ochratoxin in animal feedstuffs	617
Intensity underground	369
Large field(e.g. Chernobyl):EPR based dosimetry	1351
Lethal <i>in vivo</i> doses:effect on lipid microviscosity of tumour nuclear membranes	1683
Protection:application of an alanine dosimetry system	1169
Protection:verification of occupational doses at nuclear facility in S. Urals	1277
Worker:postmortem ESR dosimetry	1341

Radioactivity

Environmental measurement:review of NPL intercomparison exercises 1989-95	971
Levels in ice of Livingston Island (Antarctica)	811
Low level in ocean sediments:standard reference material	967
Measurements using storage phosphor technology	1023
Natural levels in air in Malaga (Spain)	1077

6-Radioiodinated L-DOPA

Solid phase labelling	37
-----------------------	----

Radioiodination

Electrophilic: of arenes using Iodogen™	489
---	-----

Radionuclide

Of PCB in presence of ozone	713
Of sodium chloride:ESR studies of Na-colloids	1503

Radionuclide

Natural:transfer from soil to plants in wet marshland	1103
---	------

Radiotherapy

Alanine dosimetry experience	1177
Alanine-EPR dosimeter response to proton beams	1197
Alanine -ESR system as reference dosimeter supplied by NPL	1171
Development of alanine-ESR <i>in vivo</i> dosimeter	1183
IAEA experience with alanine -ESR dosimeter	1189

Radiotracer

'Foil'(Joliot) method: use for sorption studies based on measurement of x-radiation	551
Use to study metabolism in rats	235

Radium

Determination in mineral waters	849
^{223}Ra and ^{224}Ra : determination from daughter products in electro-deposited radium	129† and 131†
^{226}Ra : determination in aqueous samples using a low level scintillation counter	861
^{226}Ra and ^{228}Ra : bioavailability and transfer in a Mediterranean ecosystem	939
^{226}Ra and ^{228}Ra determination in crustacean carapaces	1049
<i>Radon</i>	
Automatic measurement of low levels in water	855
Chamber: simulated equilibrium factor studies	543
Concentration in the ground: effect of water content of soil	377

Exposure of animals: intercomparison of measurement techniques	355
Intercomparison of measurement systems in European laboratories	835
Measurement in underground water from Swaziland using a CR-39 track detector	383
Progeny in indoor air	515
²²² Rn	
Determination in aqueous samples using a low level scintillation counter	861
Levels in Malaga (Spain)	1077
Measurement in soil:concentrations in interstitial air	841
<i>Reactor</i>	
Wastes:determination of Ce,Eu,Pu,Am and Cm by low level measuring techniques	1113
<i>Rock</i>	
-Water interaction processes study in El Berrocal site	927
<i>Rubidium</i>	
Cerenkov and scintillation analysis in ⁸⁶ Rb- ³⁵ S- ³³ P	659
<i>Rhenium</i>	
Increase in ¹⁸⁸ Re yield after 'wet storage' of generator by use of ascorbic acid/saline eluant	23*
¹⁸⁸ Re	
Electrolytic reduction	289
Generator kit for labelling antibodies	7
Generator produced for labelling Lipiodol	267
Generator: recovery of ¹⁸⁶ W from spent generator	727
-MDP complex: synthesis	195
<i>Ruthenium</i>	
⁹⁷ Ru production via ⁹⁹ Tc (p,3n) ⁹⁷ Ru reaction: use of technetium as target and target chemistry	145
<i>Saliva</i>	
Mixed, of healthy and cystic fibrosis children: sodium and chlorine concentrations	273
<i>Sample</i>	
Biological: intercomparison of γ -spectrometry	801
Collected in Mururoa test site:results of measurements by SMSRB	951
Deposition:continuous measurements of ¹³⁷ Cs and ⁷ Be -indicator of origin	1135
Deposition (rain and dry fallout) :analysis of ⁹⁹ Tc	1057
Environmental: ¹²⁹ I determination by neutron activation	723
Geological:evaluation of irradiation from ⁶⁰ Co panoramic source in dating procedures	1419
<i>Sand</i>	
Coastal Eolian: abnormal response to irradiation dose of E' center of quartz	1457
Collected from sewage sludge: investigation of TL properties and use as an <i>in situ</i> dosimeter	115
Haro river: sorption potential for antimony removal from acidic aqueous solutions	467
Use as routine dosimeter:comparison of ESR/TLD analyses	1547
<i>Sapphire</i>	
Neutron irradiation:effect on Mn valency	1523
<i>Scandium</i>	
⁴⁶ Sc : separation from ⁸⁵ Sr by a cerium III silicate ion exchanger	501
⁴⁷ Sc : LLX separation from α -activated Ti with HDEHP	1

*Scattering*Elastic and Compton: in the atomic region $12 \leq Z \leq 82$ 219*Scintillation proximity radioimmuno assay*

Use of microporous membranes 323

Scintillator

Benzene, toluene and cyclohexane: energy resolution measurements 241

for monoenergetic γ -rays

Liquid; effect of solvent on fluorescence quenching 461

Plastic: factors determining radiation stability 1557

Sodium iodide; assessment of heavy radioactive elements 997

Study of alkaline solution of luminol 441

Sea

Deposits: ESR dating 1427

Water in the Bay of Bengal: ^{134}Cs , ^{137}Cs and ^{40}K levels 33**Sediment* ^{241}Am determination: review of analytical techniques 627

From Mururoa test site: results of measurements by SMSRB 951

 γ -spectrometric analysis of ^{210}Pb 473 ^{210}Pb distribution near fertilizer factory 599*

Marine: Zn(II) sorption by sequential extraction - radiotracer technique 165

Ocean: low level radioactivity standard reference material 967

Selenium

Determination in biological samples by neutron activation analysis 735*

Levels in yeast cells: use of INAA 105

Study of interaction with Te in yeast cells by INAA 153

*Separator*Dubna gas-filled recoil: use in study of α - α correlated sequences for heavy ion reactions 451**Shellfish*

From Mururoa test site: results from measurements by SMSRB 951

Shells

Sea, irradiated: ESR detection 1633

Shrimp

Cuticle: effect of irradiation dose and storage on ESR signal 1629

Silica see also *silicon dioxide*

ESR dating by use of E' signal in flint 1399

Silicates

ESR of trapped holes and electrons 1489

Silicon dioxide

Detection of E' defects by EPR imaging 1595

Silver

Elastic and Compton scattering cross sections 219

Natural: α bombardment-excitation functions and yields 309 $^{109}\text{Ag}(\text{n},2\text{n})^{108\text{m}}\text{Ag}$: excitation functions 569*SKF 75670* ^{11}C labelling 279*SKF 82957* ^{11}C labelling 279*Sodium*

Colloid in irradiated NaCl: ESR study 1503

Concentration in mixed saliva of healthy and cystic fibrosis children 273

 ^{22}Na cyclotron production: excitation function of $^{22}\text{Ne}(\text{p},\text{n})^{22}\text{Na}$ 303*Sodium chloride*

Dilute solutions: comments on attenuation coefficients of 123keV

γ -radiation	1149†
Irradiated:ESR and ESR imaging	1615
Irradiated:ESR studies of Na colloids	1503
<i>Software</i>	
Use of Quattro Pro™ for radiometric spectral analysis	895
<i>Soil</i>	
241 Am determination :review of analytical techniques	627
Analysis of 99m Tc by ICP-MS spectrometry	1057
137 Cs concentration in Taiwan	159
137 Cs contamination in Taiwan: use of plants as a bioindicator	285
Enhanced U and Th concentration from marshland contaminated river water	1081
From Mururoa test site:results of measurements by SMSRB	951
Phosphogypsum piles: radioactive impact evaluation by γ -ray spectrometry	1069
222 Rn concentration in interstitial air	841
To plant transfer coefficients of natural radionuclides in Mediterranean ecosystem	939
Water content determination using a photodiode	587
Water content: effect on radon concentration in the ground	377
Wet marshland:transfer of radionuclides to plants	1103
<i>Solvent</i>	
Effect on fluorescence quenching of liquid scintillators	461
<i>Spectra</i>	
γ -ray: selection of single peaks	229
<i>Spectrometer</i>	
Compton suppression: improvement in limit of detection	649
γ -ray: for use under water	1127
γ -ray: preparation for efficiency calibration standards	981
High sensitivity for ESR dosimetry	1589
Liquid scintillation: accuracy of Cerenkov measurements	123*
<i>Spectrometry</i>	
Accelerator mass(AMS): use to measure 14 CO ₂ in fat metabolism studies	417
Alpha: fitting and application to low level measurements	899
EPR:use in assessment of dose after accidental overexposure	1345
ESR :use to estimate accumulated radiation dose in dental enamel	1321
Gamma measurements:application of Monte Carlo calculations	919
γ -ray	
Analysis of 210 Pb in sediment samples	473
And x-ray:feasibility study of use for determination of U contamination	1141
Intercomparison studies on biological samples	801
On nuclear material using a CdZnTe detector	755
Radioactive impact of phosphogypsum	1069
ICP-MS to determine 232 Th excretion in urine	1055
ICP-MS:use to analyse 99m Tc in soil and deposition samples	1057
Liquid scintillation : quench correction when measuring 241 Pu in presence of Pu- α	875
Low energy scintillation γ : use to determine 238 U and 210 Pb in coal ash	93
Ultra low level γ : use to determine age of crustacean carapaces	1049
X-ray: comparison of thermoelectrically and conventionally cooled detectors	455*

Spectroscopy

α -: use to identify Pu after separation from irradiated uranium	27*
Delayed photon: use of single comparator method in aerosol composition analysis	761
EPR <i>in vivo</i> :use in study of pathophysiology,physiology and pharmacology	1663
EPR: use to characterize free radicals in γ -sterilized biodegradable drugs	1669
<i>ESR</i>	
Application to study of drug radiosterilization	1565
Of building materials as a dosimetry technique	1381
Study of free radioicals in irradiated PMMA	1561
Use for estimation of accident absorbed doses	1335
Use to identify irradiation of mangoes	1655
General triple resonance: of biocarbonates	1443

Spectrum

Alpha:fitting and application to low level measurements	899
Apha-particle:identification of isotopes from delayed coincidence measurements and pulse height discrimination	997
ESR:composite character of alanine	1241
ESR:qualitative spectral analysis	1385
From semiconductor γ -spectrometry: factor analysis	905
Gamma: automatic analysis of continuum phenomena	911
Pulsed EPR: investigation of hyperfine structure of γ -irradiated alanine	1257

Radiometric:analysis using spread sheet software

895

Standard

Efficiency calibration:preparation for γ -ray spectrometers	981
Maintenance of the Bequerel	423
Reference material for low level radioactivity ocean sediments	967

Sterilization

γ -irradiation of nitroimidazoles:study of stability by ESR	1565
Of antibiotics:detection by ESR	1569

Steroid hormone

γ -irradiated:EPR/ENDOR investigations	1675
---	------

Storage photostimulable phosphor system

Use for radioactivity measurements	1023
------------------------------------	------

Strontium

Sulphate as x-ray storage phosphor:EPR and ENDOR investigations	1579
^{85}Sr : separation from ^{46}Sc on a cerium III silicate ion exchanger	501

 ^{90}Sr

Concentration in alkaline pulp mill in S.Spain	1079
Determination in urine samples	869
Sorption from water by alginates	887

Sugar see also *sucrose*

-EPR dosimeter system:critical evaluation	1375
Use as a detector in criticality accident dosimetry	1335

Sulphite radical

Determination in coral	1437
------------------------	------

Sulphur

Cerenkov and LS analysis in triple label ^{86}Rb - ^{35}S - ^{33}P	659
---	-----

Sulphur dioxide

Solid:preliminary study for ESR dating	1433
--	------

Tantalum	
^{183}Ta : cyclotron production by $^{186}\text{W}(\text{p},\alpha)^{183}\text{Ta}$ reaction	171
Target	
Evaluation of Bi for cyclotron production of ^{211}At	135
Material: functionalization of cross linked polystyrene	513
Technetium: use for production of ^{97}Ru via the $^{99}\text{Tc}(\text{p},3\text{n})^{97}\text{Ru}$ reaction and target chemistry	145
Zn: separation of Ga isotopes by thermal diffusion	297*
Technetium	
Cyclic tetramine complexes of $^{99m}\text{TcO}_2$: synthesis and biodistribution (in French)	51
Plant speciation studies: cavaet on use of 2-mercaptoethanol	605
^{99}Tc :analysis in soil and deposition samples by inductively coupled plasma mass spectrometry	1057
^{99}Tc di-isocyanide and tri-isocyanide complexes	479
^{99m}Tc generator :polyethylene glycol based aqueous biphasic systems	497
Use as target and target chemistry for production of ^{97}Ru	145
Tellurium	
Study of interaction with Se in yeast cells by INAA	153
Temperature	
Cryogenic:effect on response of alanine dosimeters	1223
Terbium	
$^{159}\text{Tb}(\text{n},2\text{n})^{158}\text{Tb}$ reaction:excitation functions	569
Thermoluminescence	
Effect of storage times and photon energies on kinetic parameters of glow curves of $\text{CaF}_2\text{-Tm}(\text{TLD-300})$	83
Properties of sand collected from sewage sludge	115
Sensitisation technique:validity to monitor firing temperature of quartz samples	191
TL, phototransferred(PTTL) and glow spectra:use of porcelain for dose assessment	1369
Use to determine external γ -dose to bricks	433
Thin layer activation	
Use for resistance to wear testing of metallic machine components	745
Thorium	
Determination in yeast cells by INAA	105
Enhanced concentrations in soils from marshland by contaminated river water	1081
In estuarine system near fertilizer plant	1121
^{147}Nd - ^{232}Th separation on cerium III silicate	501
Series disequilibrium in granites: weathering effects	1115
^{208}Th : bioavailability and transfer in a Mediterranean ecosystem	939
^{228}Th determination in crustacean carapaces	1049
^{222}Th excretion in urine:determination by ICP-MS	1055
Tin	
Elastic and Compton scattering cross sections	219
Tissue	
Breast,normal and pathological samples: photon linear attenuation coefficient and water content	777
Titanium	
α -particle activated: LLX separation of carrier free ^{47}Sc , ^{48}V and $^{48,49,51}\text{Cr}$ with HDEHP	1
Toluene	
Scintillator: energy resolution measurements for γ -rays	241

Tooth enamel

EPR dosimetry

Effect of metamorphic modifications	1317
First results of international intercomparison	1281
Optimal registration conditions at low accumulated dose	1311
Pre and post crushing sensitivity	1305
Selective saturation method	333
Estimation of accumulated radiation dose by ESR spectrometry	1321
Paramagnetic resonance created by u.v. light	785
Radiation induced paramagnetic centers as studied by ENDOR	1365
Retrospective ESR dosimetry:review of aspects	1293
Use as a detector material for retrospective EPR dosimetry	1299
Use in postmortem assessment of radioactive dose	1341

Trace element

Study of uptake and excretion in rats	235
---------------------------------------	-----

2,4,5-Trichlorophenol

^{14}C labelled:direct LSC when sorbed to pulped wood fibres	319
---	-----

{2- ^{18}F -2-(Trifluoromethyl)-4,4' dimethyl -2-oxaline}

Reduction of isotopic dilution during synthesis	401
---	-----

Tri-isoctylamine

Use in separation of carrier free $^{52,56}\text{Mn}$, $^{55,56,58}\text{Co}$ and $^{56,57}\text{Ni}$	413
--	-----

*3 β -(*p*-Trimethylsilyl phenyl)tropane-2 β carboxylic acid methyl ester*

Synthesis for use as precursor in preparation of [^{123}I] RTI-55	79*
--	-----

Tris-(hydroxymethyl) aminomethane

Use as a ESR dosimeter	1539
------------------------	------

Tritium

^3H - ^{14}C ratios : pulse height spectral analysis	767
--	-----

^3H :minimum detectable activity with LS counters using LOLES procedure	879
--	-----

Tumour

Hepatic: effect of ^{188}Re labelled Lipiodol	267
--	-----

Membrane:effect of lethal doses of radiation <i>in vivo</i> on lipid micro-viscosity	1683
--	------

Tungsten

Enriched ^{186}W : recovery from spent $^{188}\text{W}/^{188}\text{Re}$ generators	727
---	-----

Ultraviolet light

Creation of paramagnetic resonance in tooth enamel	785
--	-----

Unit

Becquerel:realization and maintenance	423
---------------------------------------	-----

Uranium

Contamination: feasibility of determination by x-ray and γ -spectrometry	1141
---	------

Content in sedimentary phosphate samples: granulation influence	821*
---	------

Enhanced concentration in soils from marshland contaminated river water	1081
---	------

In estuarine system near fertilizer plant	1121
---	------

Irradiated : separation of Pu and identification by α -spectroscopy	27*
--	-----

Isotopic distribution in granitic fracture fillings	927
---	-----

Mining:determination of impact on environment by low level counting	1109
---	------

^{147}Nd - $^{235,238}\text{U}$: separation by cerium III silicate ion exchanger	501
--	-----

Series ,disequilibrium in granites:weathering effects	1115
---	------

Solution : γ -ray spectrometry using a CdZnTe detector	755
---	-----

^{238}U : determination in coal ash by low energy scintillation spectrometry	93
---	----

^{238}U :transfer from soil to plants in wet marshland	1103
---	------

Urine

Method for determination of actinides and ^{90}Sr	869
--	-----

²³² Th excretion:determination by ICP-MS	1055
<i>Valency</i>	
Variation in Mn induced by neutron irradiation of sapphire	1523
<i>Vanadium</i>	
⁴⁸ V: LLX separation with HDEHP from α -activated Ti	1
<i>Vessel</i>	
Rail transport for natural gas:accumulation of ²¹⁰ Pb activity	925
<i>Void</i>	
Determination by radiation interrogation: optimal experimental parameters	315*
<i>Waste</i>	
Radioactive detection systems:calibration methods	669
Reactor: determination of low levels of radioisotopes	1113
<i>Water</i>	
Automatic measurement of concentration of low level radon	855
Content of normal and pathological breast tissues	777
Content of soil: effect on radon activity concentration in the ground	377
Determination of Cs radionuclides using composite sorbents	885
From Mururoa test site:results of measurements by SMSRB	951
Ground in Western Anatolia: gross γ -particle activity	709
Ground: radon concentration measurements using a CR-39 track detectors	383
Mineral:determination of radium concentration	849
River: ²¹⁰ Pb distribution near fertilizer factory	599*
Sea in the Bay of Bengal:levels of ¹³⁴ Cs, ¹³⁷ Cs and ⁴⁰ K	33*
Sorption of ⁹⁰ Sr by alginates	887
<i>Wear</i>	
Resistance testing of metallic machine components by charged particle surface activation	745
<i>Wood</i>	
Pulped fibres: direct LSC of sorbed ¹⁴ C labelled organic compounds	319
<i>X-ray</i>	
Measurement: use in sorption studies for radiotracers by the 'foil' (Joliot) method	551
Storage phosphors BaSO ₄ and SrSO ₄ :EPR and ENDOR investigations	1579
<i>Xylenol orange</i>	
Dyed polyvinyl alcohol film: use as a high dose film dosimeter	345
<i>Yeast</i>	
Determination of Se,Th,Zn,Co and Fe by INAA	105
Study of interaction between Se and Te in the cells by INAA	153
<i>Ytterbium</i>	
¹⁴⁹ Yb: measurement and evaluation of photon emission probabilities	329
¹⁷⁴ Yb(n, γ) ¹⁷⁵ Yb reaction:argument for K _o -standardization in neutron activation analysis	389
<i>Yttrium</i>	
Elastic and Compton scattering cross sections	219
<i>Zinc</i>	
Levels in yeast cells: use of INAA	105
Zn (II) sorption behaviour on marine sediment	165
<i>Zirconium</i>	
Oxide, hydrous: adsorption study to test efficiency of removal of mercury from aqueous solutions	15

